

CLAIMS

1. An apparatus comprising:
means for calculating a first gain value representing
the gain of one or more first channel samples of a
first channel of a signal;
5 means for calculating a second gain value representing
the gain of one or more second channel samples of
a second channel of the signal; and
means for calculating a gain ratio of the first gain
value to the second gain value as the quotient of
10 the first gain value divided by the second gain
value.

2. The apparatus of Claim 1, wherein the means for
calculating the first gain value comprises at least one of
an average gain of the one or more first channel samples and
15 a summation of the one or more first channel samples.

3. The apparatus of Claim 1, wherein the means for
calculating the second gain value comprises at least one of
an average gain of the one or more second channel samples
and a summation of the one or more second channel samples.

20 4. The apparatus of Claim 1, wherein the first
channel is the Forward Shared Channel and the signal is a
Code Division Multiple Access signal.

5. The apparatus of Claim 1, wherein the second
channel is the Pilot Channel and the signal is a Code
25 Division Multiple Access signal.

6. An apparatus comprising:

first accumulator means for calculating a first sum
equal to the summing of one or more first samples,
the first samples representing the received energy
of a first channel within a frame of a signal;
5 second accumulator means for calculating a second sum
equal to the summing of one or more second
samples, the second samples representing the
received energy of a second channel within the
frame of the signal; and
10 a divider means coupled to the first accumulator means
and the second accumulator means for calculating
the quotient of the first sum divided by the
second sum.

7. The apparatus of Claim 6, wherein the first
15 channel is the Forward Shared Channel and the signal is a
Code Division Multiple Access signal.

8. The apparatus of Claim 6, wherein the second
channel is the Pilot Channel and the signal is a Code
Division Multiple Access signal.

20 9. An apparatus comprising:
means for calculating a Forward Shared Channel (FSHCH)
gain representing the gain of one or more received
FSHCH samples;
means for calculating a Pilot Channel (PCH) gain
25 representing the gain of one or more received PCH
samples; and
means for estimating a gain ratio of the FSHCH to the
PCH as the quotient of the FSHCH gain divided by
the PCH gain.

10. A method comprising the steps of:
calculating a first gain value representing the gain of
one or more first channel samples of a first
channel of a signal;
5 calculating a second gain value representing the gain
of one or more second channel samples of a second
channel of the signal; and
calculating a gain ratio of the first gain value to the
second gain value as the quotient of the first
10 gain value divided by the second gain value.

11. The method of Claim 10, wherein the step of
calculating the first gain value comprises at least one of
calculating an average gain of the one or more first channel
samples and calculating a summation of the one or more first
15 channel samples.

12. The method of Claim 10, wherein the step of
calculating the second gain value comprises at least one of
calculating an average gain of the one or more second
channel samples and calculating a summation of the one or
20 more second channel samples.

13. The method of Claim 10, wherein the first channel
is the Forward Shared Channel and the signal is a Code
Division Multiple Access signal.

14. The method of Claim 10, wherein the second channel
25 is the Pilot Channel and the signal is a Code Division
Multiple Access signal.

15. A method comprising the steps of:

- calculating a Forward Shared Channel (FSHCH) gain
representing the gain of one or more received
FSHCH samples;
- 5 calculating a Pilot Channel (PCH) gain representing the
 gain of one or more received PCH samples; and
- calculating a gain ratio of the FSHCH to the PCH as the
 quotient of the FSHCH gain divided by the PCH
 gain.